

In the Claims

Applicants have submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please cancel claims 1-24 and 31-39 without prejudice or disclaimer.

1. -24. (Canceled)

25. (Original) A method of prioritizing and granting bus access requests, comprising:
granting the bus access request of a requestor asserting a high priority interrupt;
if no requestor is asserting the high priority interrupt, granting the bus access request of a requestor owning the current request slot; and
if no requestor is asserting the high priority interrupt and no requestor owns the current request slot, granting the bus access request of a requestor highest on a round robin priority list.

26. (Original) The method of claim 25, further comprising:
granting access to a processor operating on a real-time signal when the processor has been in a wait state for a time-out period.

27. (Original) The method of claim 26, wherein the time-out period is programmable.

28. (Original) The method of claim 26, wherein when the processor has been in the wait state for the time-out period, the high priority interrupt is asserted.

29. (Original) The method of claim 26, further comprising:
if the request of the requestor owning the current request lot is granted, updating a table of request slot owners.

30. (Original) The method of claim 29, further comprising:

if the request of the requestor highest on the round robin priority list is granted, updating the round robin priority list and the table of request slot owners.

31. - 39. (Canceled)